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File 351:Derwent WPI 1963-2001/UD,UM &UF=200219 (c) 2002 Derwent Info Ltd

*File 351: Please see HELP NEWS 351 for details about U.S. provisional applications.

?e pn=jp 2777678

Ref	Items	Index-term
E1	1	PN=JP 2777677
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E4	1	PN=JP 2777678B
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E10	1	PN=JP 2777681B
E11	1	PN=JP 2777682
E12	1	PN=JP 2777682B

?s e3

S1 1 PN="JP 2777678"

?t s1/t:

1/TI/1

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Recombinant human leukocyte-derived hepatocyte growth factor - with DNA encoding it, recombinant expression vectors and transformant cells expressing it

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WPI Acc No: 1991-370578/199151

Related WPI Acc No: 1998-419650

XREF Acc No: 091-159736

Recombinant human leukocyte-derived hepatocyte growth factor - with DNA encoding it, recombinant expression vectors and transformant cells expressing it

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Number of Countries: 005 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 461567	A	19911218	EP 91109369	A	19910607	199151 B
JP 5111453	A	19930507	JP 91163485	A	19910606	199323
JP 2777678	B2	19980726	JP 91163485	A	19910606	199834
JP 10141991	A	19980726	JP 91163485	A	19910606	199840
			JP 9837890	A	19910606	
EP 461560	B1	19981115	EP 91109369	A	19910607	199850
			EP 98168130	A	19910607	
DE 69150494	E	19981224	DE 630494	A	19910607	199906

			EP 91109369	A	19910607	
JP 3082171	B2	20000828	JP 91163485	A	19910606	200044
			JP 9837890	A	19910606	
JP 2000300282	A	20001031	JP 9837890	A	19910606	200059
			JP 2000107213	A	19910606	

Priority Applications (No Type Dates): JP 90152474 A 19900611
 Cited Patents: 8.Jnl.Fef; EP 411557; JP 60045534; JP 63112562; WO 9010651
 Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
EP 461560	A		33		

Designated States (Regional): DE FR GB IT

JP 5111383	A	23	C12N-015/16		
JP 2777678	B2	23	C12N-015/09	Previous Publ. patent JP 5111383	
JP 10191991	A	26	C12N-015/09	Div ex application JP 91163485	
EP 461560	B1 E		C12N-015/19	Related to application EP 91109130	
				Related to patent EP 869009	

Designated States (Regional): DE FR GB IT

DE 69134994	E		C12N-015/19	Based on patent EP 461560	
JP 3082171	B2	25	C12N-015/09	Div ex application JP 91163485	
				Previous Publ. patent JP 10191991	
JP 2000300282	A	22	C12N-015/09	Div ex application JP 9837890	

Abstract (Basic): EP 461560 A

A recombinant expression vector capable of expressing, in host cells, the base sequence encoding human leukocyte-derived hepatocyte growth factor (HGF) is new. Also claimed are: (1) a transformant obt'd. by transforming mammalian or microorganism cells with the vector; (2) procn. of recombinant human leukocyte-derived HGF by culturing the transformant of (1) and harvesting the protein from the culture; and (3) a recombinant (esp. single-chain) human leukocyte-derived HGF obt'd. as in (1).

Prof. the HGF has an amino acid (AA) sequence corresponding to residues 1(Met) to 723(Ser) of a specified 1st sequence (HLC3) or residues 1(Met) to 723(Ser) of a 2nd sequence also provided (HLC2).

USE/ADVANTAGE - The recombinant HGF is expected to be useful for hepatocyte cultivation, liver regeneration, research into liver function, and the effect of various hormones and drugs hepatocytes, research into the carcinogenesis mechanism of hepatoma. It may also be used to prepare anti-HGF antibodies for use in diagnostics and therapy. Native HGF is secreted only in trace amts. and is difficult to obtain. Use of recombinant techniques will allow mass procn. of the polypeptide.

Dwg. 0/15

Title Terms: RECOMBINATION; HUMAN; LEUCOCYTE; DERIVATIVE; HEPATO; GROWTH; FACTOR; DNA; ENCODE; RECOMBINATION; EXPRESS; VECTOR; TRANSFORM; CELL; EXPRESS

Derwent Class: B04; D16

International Patent Class (Main): C12N-015/09; C12N-015/16; C12N-015/19

International Patent Class (Additional): A61K-037/04; A61K-037/24;

A61K-038/00; A61K-038/16; C07K-013/00; C07K-014/415; C07K-014/42;

C07K-015/00; C12N-005/10; C12N-015/35; C12P-021/02; C12R-001-31;

C12N-015/09

File Segment: CPI

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Status: Signing Off...

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Status: Signed Off. (3 minutes)